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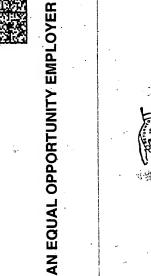
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/085,633	02/26/2002	William E. Glenn	FAU-7043	5373	
75	90 09/23/2005		EXAM	INER	
Martin Novack 17414 Via Capri East			YE, LIN		
Boca Ration, F			ART UNIT	PAPER NUMBER	
			2615		
			DATE MAILED: 09/23/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.



		Application No.	Applicant(s)		
		10/085,633	GLENN, WILLIAM E.		
	Office Action Summary	Examiner	Art Unit		
		Lin Ye	2615		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status			·		
1)⊠	Responsive to communication(s) filed on 26 Fe	ebruary 2002.			
·	•	action is non-final.			
3)□	Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is		
,—	closed in accordance with the practice under E				
Dispositi	ion of Claims				
4)🛛	Claim(s) 1-14 is/are pending in the application.				
	4a) Of the above claim(s) is/are withdraw	wn from consideration.			
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-14 is/are rejected.	·			
7)	Claim(s) is/are objected to.				
8)[Claim(s) are subject to restriction and/o	r election requirement.			
Applicati	ion Papers				
9)[The specification is objected to by the Examine	r.			
10)🖂	The drawing(s) filed on 26 February 2002 is/are	e: a)⊠ accepted or b)⊡ objected	d to by the Examiner.		
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).		
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority u	under 35 U.S.C. § 119				
,	 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 				
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* \$	See the attached detailed Office action for a list	or the certified copies not receive	a.		
Attachmen	it(s)	_			
	1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
3) Infor	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Paper No(s)/Mail Date Paper No(s)/Mail Date				

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 6 and 7 are rejected under 35 U.S.C. 112, second paragraph, as being vague and indefinite.

Referring to claims 6 and 7, states "said second clock" in line 10, but it is unclear whether or not "said second clock" is one of the "said first and second vertical clocks" which previously stated in the claims; and whether or not "said second clock" is another "said first and second vertical clocks" which previously stated in the claims.

Appropriate correction is required.

For examination purpose, the claims 6 and 7 will be interpreted as it is best understood.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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 Claims 1-5 and 10-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Kondo U.S. Patent 6,829,008.

Referring to claim 1, the Kondo reference discloses in Figure 11, a method for producing electronic video signals representative of a focused moveable image (e.g., moving image captured by video movie camera, see Col. 7, lines 50-55 and Col. 1, lines 23-35), comprising the steps of: providing a charge coupled device (CCD, see Col. 8, lines 31-35), masking substantially less than half of the lines of said device to form a masked storage area (storage area 2 is covered with an aluminum light-shielding layer, see Col. 8, lines 65-67 and Col. 9, lines 1-5) and a substantially larger unmasked sensing area (image area 1, see Col. 8, lines 51-54); disposing said sensing area in the path of said image; providing a shutter for periodically blocking said image from said sensing area (See col. 8, lines 27-30); and providing clocking signals (Φ V1, Φ Vs and Φ S as shown in Figures 11 and 15) to said device to shift sensed lines of said image from said sensing area to said storage area and to clock image representative electronic video signals out of said device (See Col. 11, lines 44-48 and Col. 12, lines 18-27).

Referring to claim 2, the Kondo reference discloses wherein said step of providing clocking signals to said device includes providing a first vertical clock (Φ V1), a second vertical clock (Φ Vs), and a pixel rate clock (Φ S) as shown in Figure 11.

Referring to claim 3, the Kondo reference discloses wherein said first vertical clock $(\Phi V1)$ is operative to shift lines in the sensing area (1) and said second vertical clock (ΦVs) is operative to shift lines in the storage area (2) as shown in Figure 11.

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Referring to claim 4, the Kondo reference discloses wherein said substantially larger unmasked sensing area (1) includes at least 55 percent of the lines of said device as shown in Figure 11.

Referring to claim 5, the Kondo reference discloses all subject matter as discussed with respected same comments to claims 3 and 4.

Referring to claim 10, the Kondo reference discloses all subject matter as discussed with respected same comments to claim 1.

Referring to claim 11, the Kondo reference discloses all subject matter as discussed with respected same comments to claim 2.

Referring to claim 12, the Kondo reference discloses all subject matter as discussed with respected same comments to claim 3.

Referring to claim 13, the Kondo reference discloses all subject matter as discussed with respected same comments to claim 4.

Referring to claim 14, the Kondo reference discloses all subject matter as discussed with respected same comments to claim 5.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada U.S. Patent 6,118,481 in view of Kondo U.S. Patent 6,829,008.

Referring to claim 6, the Hamada reference discloses in Figures 5-7 and 9, a method for producing electronic video signals representative of a focused moveable image (e.g., moving image captured by TV camera, see Col. 1, lines 15-25), comprising the steps of: providing a charge coupled device (CCD 11, see Col. 5, lines 55-60), substantially less than half of the lines of said device to form a storage area (storage area 11s is formed in a matrix of 3 rowsx 16 columns, see Col. 6, lines 55-58) and a substantially larger unmasked sensing area (image area 11i is formed in a matrix of 12 rowsx 16 columns, see Col. 5, lines 59-65); disposing said sensing area in the path of said image; providing a shutter (16, see Col. 9, lines 39-43) for periodically blocking said image from said sensing area; and providing clocking signals $(\Phi a, \Phi b, \Phi V)$ and Φh as shown in Figures 6-7, see Col. 9, lines 43-58) to said device to shift sensed lines of said image from said sensing area to said storage area and to clock image representative electronic video signals out of said device; wherein said step of providing clocking signals to said device includes providing a first vertical clock (Φa and Φb), a second vertical clock (ΦV), and a pixel rate clock (Φh); wherein said first vertical clock is operative to shift lines in the sensing area and said second vertical clock is operative to shift lines in the storage area as showing Figure 5; wherein, during a vertical blanking period after shutter closure (e.g., during the first imaging operation), lines are shifted from the sensing area to fill the storage area using said first and second vertical clocks at relatively high speed (See Col. 6, lines 30-33 and Col.2, lines 55-56) and during the remainder of said shutter closure time (e.g., in the second imaging operation) further lines are shifted from the sensing

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area to the storage area and lines are shifted through the storage area and read out using said first and second vertical clocks at relatively low speed (e.g., sequentially transfers the information charges one horizontal line each time to the output section 11d, see Col. 7, lines 1-8 and Col. 8, lines 40-55), and after shutter opening (e.g., when the shutter control signal in the leading edge as shown in Figure 9, see Col. 9, lines 39-41), lines in the storage area are read out using said second clock at a relatively low speed (e.g., the continuous image signals Y0(t) are transferred from the storage section 11s to a signal processing circuit 14, see Col. 15-23). However, the Hamada reference does not explicitly show the storage section (11d) is a masked storage area.

The Kondo reference discloses in Figure 11, a method for producing electronic video signals representative of a focused moveable image (e.g., moving image captured by video movie camera, see Col. 7, lines 50-55 and Col. 1, lines 23-35), comprising the steps of: providing a charge coupled device (CCD, see Col. 8, lines 31-35), masking substantially less than half of the lines of said device to form a masked storage area (storage area 2 is covered with an aluminum light-shielding layer, see Col. 8, lines 65-67 and Col. 9, lines 1-5) and a substantially larger unmasked sensing area (image area 1, see Col. 8, lines 51-54). The Kuroda reference is evidence that one of ordinary skill in the art at the time to see more advantages the storage area of the image device is covered with an aluminum light-shielding layer so that the readout information charge transferred from image section can be accurate without effecting by any unwanted incident light. For that reason, it would have been obvious to one of ordinary skill in the art to modify the imaging pick-up device of Hamada ('481) by providing a masked storage area as taught by Kondo ('008).

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Referring to claim 7, the Hamada and Kondo references disclose all subject matter as discussed with respected to claim 6, and the Kondo reference discloses wherein said substantially larger unmasked sensing area includes at least 55 percent of the lines of said device as shown in Figure 11.

Referring to claim 8, the Hamada and Kondo references disclose all subject matter as discussed with respected to claim 6, and the Hamada reference discloses wherein said pixel clock (Φ h) is operative to clock pixels out of the last line of said storage area (11s) as shown in Figure 5.

Referring to claim 9, the Hamada and Kondo references disclose all subject matter as discussed with respected same comments to claims 7 and 8.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Elabd et al. U.S 5,754,229 discloses an image sensor device capable of snap shot color applications.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lin Ye whose telephone number is (571) 272-7372. The examiner can normally be reached on Mon-Fri 8:00AM-5:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lin Ye

Examiner

Art Unit 2615

September 14, 2005

Notice of References Cited Application/Control No. | Applicant(s)/Patent Under Reexamination | GLENN, WILLIAM E. | Examiner | Art Unit | Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-6,829,008	12-2004	Kondo et al.	348/302
	В	US-6,118,481	09-2000	Hamada, Minoru	348/220.1
	С	US-5,754,229	05-1998	Elabd, Hammam	348/319
	D	US-5,896,172	04-1999	Korthout et al.	348/248
	Ε	US-5,493,335	02-1996	Parulski et al.	348/231.6
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FOREIGN PATENT DOCUMENTS

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	N					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.